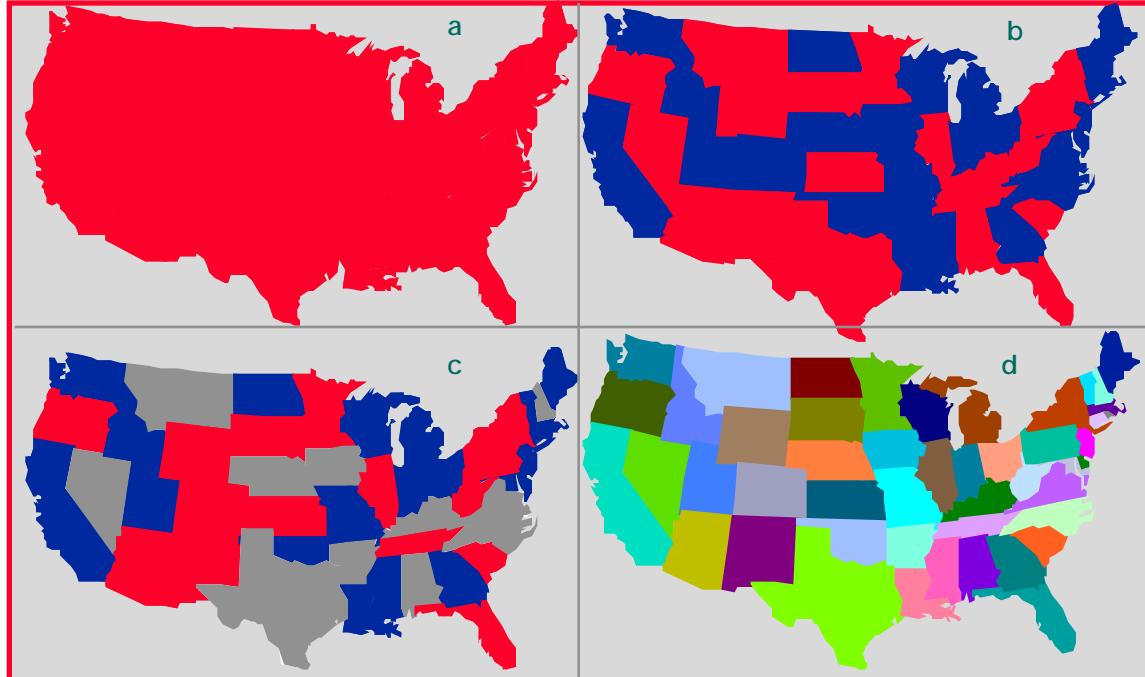


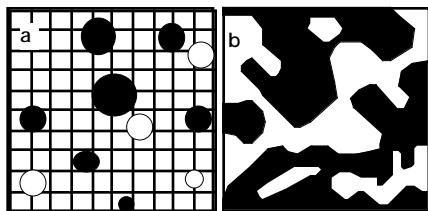
Growth, Morphology and Symmetry of Mazed Multicrystal Films

Atomic Templates for Extreme Textures

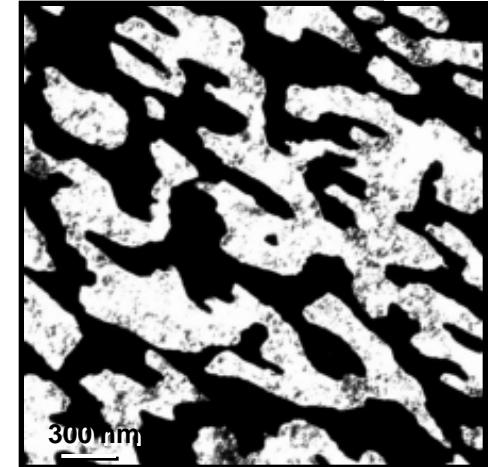
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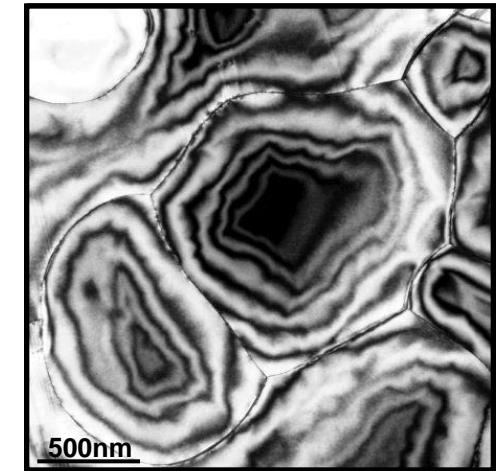
Polycrystal in the shape of a map of the continental US, illustrating Q^{th} order Potts model microstructure for $Q=1,2,3$ and 48. The color of the states corresponds to the orientation of the grains in a polycrystal thin film.



Schematic of nucleation a) and final morphology b) of mazed bicrystal ($Q=2$) on a single crystal template.



Mazed bicrystal film ($Q=2$) of Fe



Mazed tricrystal film ($Q=3$) of Al